

CLAIMS

1. A hollow structural needle crystal comprising fullerene molecules.
2. A needle crystal as claimed in Claim 1, wherein the fullerene molecule is a C_{60} , C_{70} or higher order fullerene, metal-intercalating fullerene or fullerene derivative.
3. A needle crystal as claimed in Claim 1 or 2, being denatured by heating or electron beam.
4. A needle crystal as claimed in any one of Claims 1 to 3, being in a closed form or holed form.
5. A method for preparing a hollow structural needle crystal comprising fullerene molecules, which comprises (1) a step in which a solution containing a first solvent dissolving fullerene therein is combined with a second solvent in which the solubility of fullerene is lower than in the above first solvent; (2) a step in which a liquid-liquid interface is formed between the above solution and the above second solvent; and (3) a step in which a carbon fine wire is precipitated on the above liquid-liquid interface.
6. A method for preparing C_{60} needle crystal, C_{60} hollow structural needle crystal, C_{60} needle crystal containing platinum or C_{60} platinum derivative, or C_{60} hollow structural needle crystal containing platinum or C_{60} platinum derivative by a liquid-liquid interfacial precipitation method, which comprises adding an alcohol to an organic solution of C_{60} to which has been added C_{60} platinum derivative.
7. A method for preparing C_{60} needle crystal, C_{60} hollow structural needle crystal, C_{60} needle crystal containing platinum or platinum derivative, or C_{60}

hollow structural needle crystal containing platinum or C_{60} platinum derivative by a liquid-liquid interfacial precipitation method from isopropyl alcohol and a saturated toluene solution of C_{60} to which has been added a C_{60} platinum derivative ($(\eta^2-C_{60})Pt(PPh_3)_2$).

8. C_{60} - C_{70} Mixed fine wire being fullerene fine wire consisting of 2 components C_{60} and C_{70} .

9. A method for preparation of C_{60} - C_{70} mixed fine wire which comprises adding a polar solvent to an organic solution of C_{60} and C_{70} to synthesize C_{60} - C_{70} mixed fine wire by a liquid-liquid interfacial precipitation method.